DD-2/3 SEP. 1986

□ L3055 DD-2/3 SERVICE NOTES

SPECIFICATIONS

Delay time

*This notes includes the contents of the DD-2 First Edition and makes it obsolate.
*DD-2のサービスノート第一版は廃版とし本サービスノート

First Edition

Power : 9VDC (battery or AC adaptor)
Current draw : 45–65mA @9V, D.TIME center

: 12.5ms(min)—800ms(max)

12.5–50ms — MODE at S.50ms 50–200ms — MODE at M.200ms

に併合します。

200-800ms - MODE at L.800ms : 200-800ms - MODE at HOLD

 $\mbox{Hold time} \qquad \qquad : 200-800 \mbox{ms} \ - \mbox{MODE at HOLD}$

Frequency response, : Delay sound 40Hz-7kHz +1dB, -3dB Direct sound 10Hz-60kHz

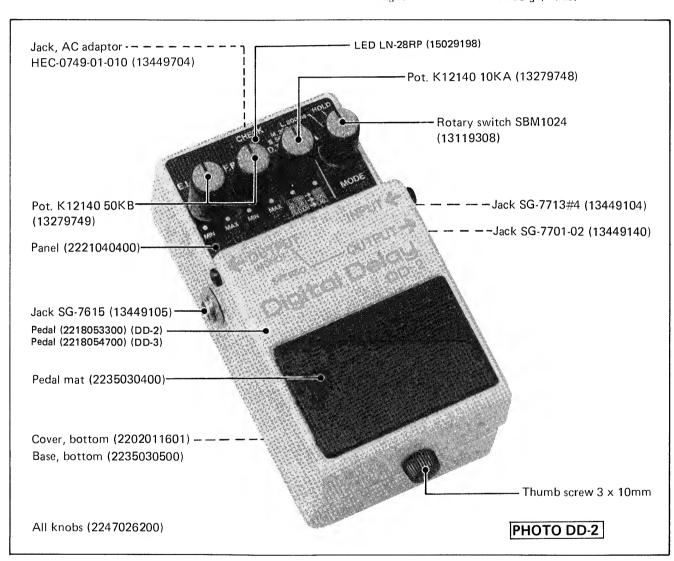
Residual noise : -95dBm (IHF-A)

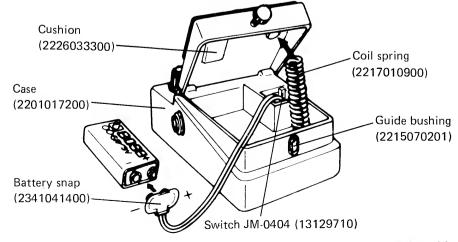
Input impedance : $1 M\Omega$

Output load impedance : 10K Ω or more

Dimensions : $70(W) \times 55(H) \times 125(D)$ mm 2-3/4(W) × 2-3/16(H) × 5(D)in

Weight : 450 g / 1 lb.







Printed in Japan BD-2 1

PARTS LIST

*The difference between DD-2 and DD-3 is nothing but the pedal.
*DD-2とDD-3の違いはペダルだけで、他は全く同じです。

		*DD-2	とDD-3の違いは	ペダルだけで、	他は全く同じです。
CASE					
2201017200	Case				
2221040400	Pane1				
2202011601	Cover				bottom
2235030500	Base				bottom
2218054700	Peda1		(DD-3)		
2218053300	Pedal		(DD-2)		
2235030400	Pedal 1	mat			
2247026200	Knob				blue
IC					
15229811	RDD63H				Main Controller
15179314	HM48641	P-3	64K D-RAM		
	or 151	79315	M5K4164NP-20)	
	or MSM	3764-20	RS (When rep	olacing, u	se HM4864P-3
			20, lower ci		
15219108	NE570		•	- 31	Compander NR
15169515	TC74HC	00P			Quad 2-input NAND gate
15159115н0	HD14066				Analog switch
15189136	M5218L	0.01			
15189152	NJM553	ΔD			OP amp
15189167	μPC2710				OP amp
13103107			NTW 011D		Comparator
1 = 2 2 0 0 0 0		89111J1	NJM-311D		
15229809	BA634	-			Flip-Flop
15199109F0	μ A 78L05				3-terminal voltage regulator
TD ANGIOTOD	or 1519	99144	μ PC78L05 J	J	
TRANSISTOR					
15129104	2SC732'	TM-GR (or 15129144	2SC2458L-	GR)
15129135	2SC260	3F			
15119124	2SA111.	5F			
FET					
	2012204	37 (1512011607	207110 77	
15139101			151391160Y		
15139102	25K3UA	U (or	15139116 2S	K118-U)	
DIODE					
15019125	1SS133				
15019633	RD11FB	-3			zener
15019523	RD5.1E			•	zener
15029117	SLP-13				LED
13029117	or 150		LN-28RP		מנונו
JACK	01 150	2,1,0	DIV ZORI		
13449704	HEC-07	49-01-0	10	· -	AC adaptor
13449105	SG-761		10		OUTPUT (MONO)
13449140	SG-770				OUTPUT
	36-110				
12440104	CC 771	2 #//.			TAIDHT
13449104	SG-771	3 #4			INPUT
13449104 SWITCH	SG-771	3 #4			INPUT
	SG-771 JM-040				INPUT
SWITCH		4			·
SWITCH 13129710 13119308	JM-040 SBM102	4			push
SWITCH 13129710 13119308 POTENTIOME	JM-040 SBM102 TER	4	1074		push
SWITCH 13129710 13119308 POTENTIOME 13279748	JM-040 SBM102 TER K12140	4	10KA		push
SWITCH 13129710 13119308 POTENTIOME 13279748 13279749	JM-040 SBM102 TER K12140 K12140	4	50KB		push rotary
SWITCH 13129710 13119308 POTENTIOME 13279748	JM-040 SBM102 TER K12140 K12140 EVN-31	4	50КВ 10КВ		push

PCB		
75224510	Effect board	(pcb 2291088702)
75224520	Volume board	(pcb 2291088702)
75224530	Switch board	(pcb 2291088702)
75228550	DC Supply board	(pcb 2291097800)
• • • • • • • •	LED board	(pcb 2291049600)

RESISTOR				
13919134	RKM14L492-103F			
	R-	2R lad	der	network
13809173T0	100	1/6W	5%	
13809581T0	220	1/6W	5%	
13809197т0	1K	1/6W	5%	
13809601T0	1.5K	1/6W	5%	
13809207T0	2.7K	1/6W	5%	
13809209T0	3.3K	1/6W	5%	
13809213T0	4.7K	1/6W	5%	
13809217T0	6.8K	1/6W	5%	
13809221T0	10K	1/6W	5%	
13809229T0	22K	1/6W	5%	
13809233T0	33K	1/6W	5%	
13809237T0	47K	1/6W	5%	
13809245T0	100K	1/6W	5%	
13809257T0	330K	1/6W	5%	
13809261T0	470K	1/6W	5%	
13809269Т0	1M	1/6W	5%	
13809243T0	82K	1/6W	5%	

ELECTROLYTIC CAPACITOR (miniature)

SRE50VB1	1μF/50V
SRE16VB4R7	$4.7 \mu F / 16 V$
SRE16VB10	10µF/16V
SRE6.3VB47B3	$47\mu F/6.3V$
SRA16V100MF	100µF/16V
	SRE16VB4R7 SRE16VB10 SRE6.3VB47B3

FLAT CABLE

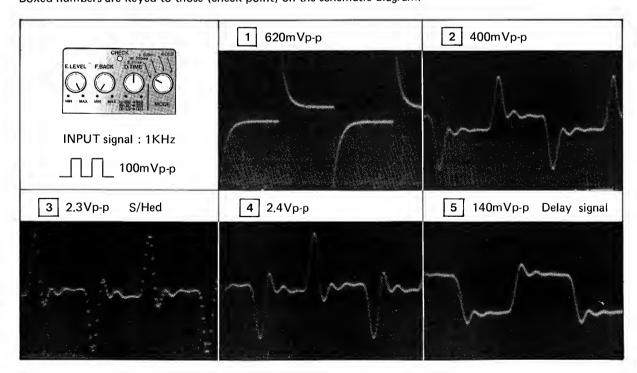
2347014800	5P	180L
2347014900	4P	150L
2347015000	3P	180L

OTHERS

2215070201	Guide bushing
2226033300	Cushion
2217010900	Coil spring
2341041400	Battery snap
2225021801	Shield sheet
2216052900	Plastic sheet (clear)

WAVEFORMS

Boxed numbers are keyed to those (check point) on the schematic diagram.



O- RESISTOR 1/6

-**∤**> 1SS133

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

- RD11FB3

© ELECTROLYTIC CAP.

MYLAR FILM CAP.

TANTALUM CAP.

CERAMIC CAP.

2SK1118-0 (2SK30A-0)

2SK1118-Y (2SK30A-Y)

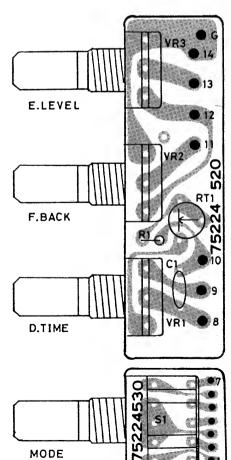
2SA1115F

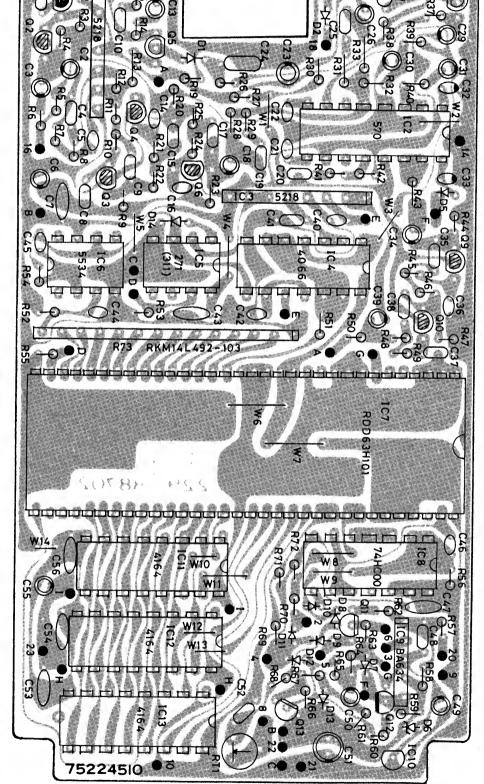
2SC2458LGR 2SC732TMGR

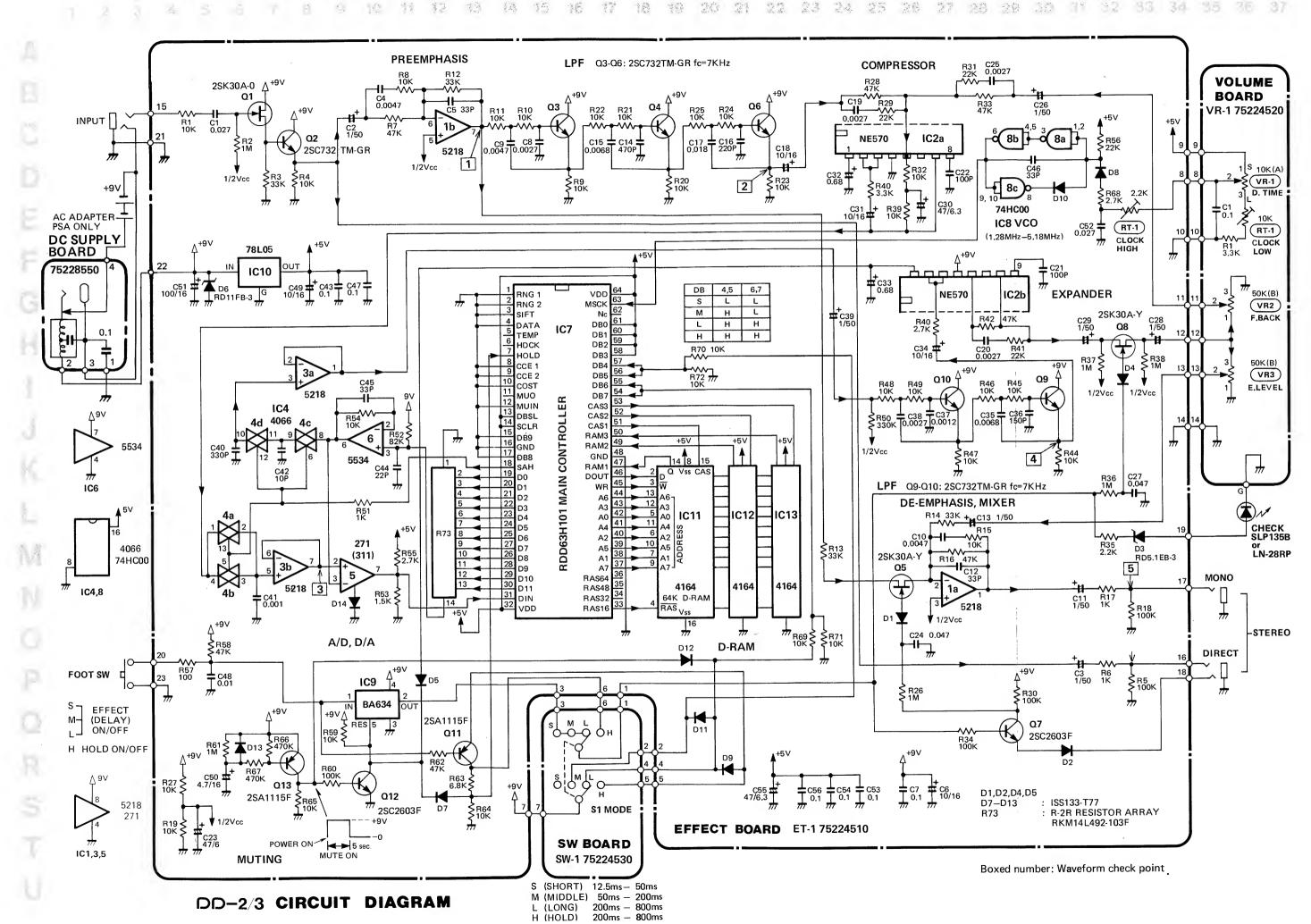
2SC2603F

(78L05

→ RD5.1EB3



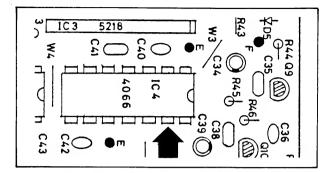




ADJUSTMENT

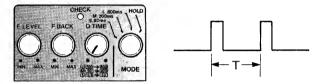
CLOCK FREQUENCY

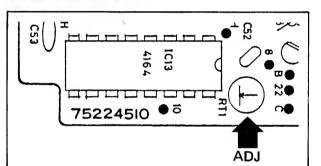
This adjustment is to set the range of Master Clock (MSCK) frequency at IC8 VCO.



Connect the scope to pin 13 of IC4 (or IC7 pin 18 SAH).

1. High End

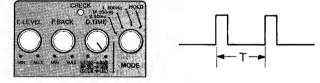


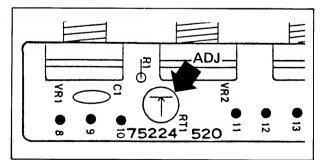


Adjust RT-1 on Effect Board for T=12.12 μ s (82.5K \pm 0.4kHz).

The MSCK should be $5.18M \pm 25.6kHz$.

2. Low End





Adjust RT-1 on Volume Board for T=50 μ s (20K \pm 0.1kHz).

The MSCK should be 1.28M \pm 6.4kHz.

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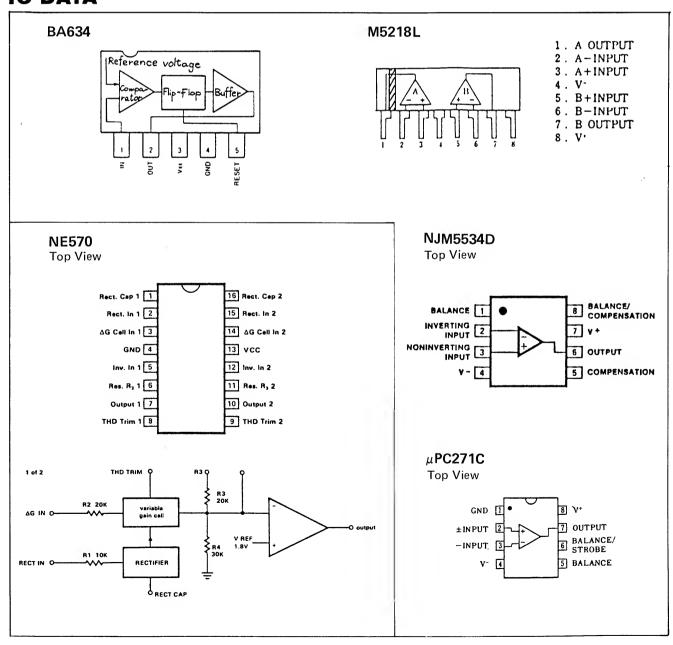
DD-2 is provided with MONO and DIRECT jacks for use in STEREO mode. Presented on MONO jack is a DIRECT or DELAY, or a combination of the both, depending on ON or OFF of Q5 and Q8 as shown below. To DIRECT jack, only direct signal is routed regardless of jack connections and switchings.

NOTE: FOOT CONTROL

In S, M or L mode, releasing Foot Switch does not change control signals to Q5 and Q8 because IC9 F.F. will not turn its output till the next press.

	MONO MODE (DIRECT jack-open)		STEREO MODE (DIRECT jack-plugged)	
Signal at MONO jack	Direct signal only	Direct, delay mixed signal	Direct signal only	Delay signal only
Foot switch (Q11 collector or IC9 out)	OFF (L)	ON (H)	OFF (L)	ON (H)
Q8	OFF	ON	OFF	ON
Q5	ON	ON	ON	OFF

IC DATA



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